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## MINUTES.

*Stated Meeting January 1, 1909.*

Mr. J. G. ROSENGARTEN in the Chair.

The decease was announced of Dr. Richard A. F. Penrose at Philadelphia, on December 26, 1908, aged 81.

Mr. R. H. Mathews, of Paramatta, N. S. Wales, presented a paper on "Ceremonial Stones used by the Australian Aborigines."

The Judges of the Annual Election of Officers and Councillors held on this day, between the hours of two and five in the afternoon, reported that the following named persons were elected, according to the laws, regulations and ordinances of the Society, to be the officers for the ensuing year.

### *President:*

William W. Keen.

### *Vice-Presidents:*

William B. Scott,            Simon Newcomb,            Albert A. Michelson.

### *Secretaries:*

I. Minis Hays,                    James W. Holland,  
Arthur W. Goodspeed,            Amos P. Brown.

### *Curators:*

Charles L. Doolittle,            William P. Wilson,            Leslie W. Miller.

### *Treasurer:*

Henry La Barre Jayne.

### *Councillors:*

*(To serve for three years.)*

Charlemagne Tower,            William Gilson Farlow,  
Robert S. Woodward,            R. A. F. Penrose, Jr.

*Special Meeting January 9, 1909.*

WILLIAM W. KEEN, LL.D., President, in the Chair.

Professor J. P. Mahaffy, of Trinity College, Dublin, read a paper on "The Irish Race."

*Stated Meeting January 15, 1909.*

WILLIAM W. KEEN, LL.D., President, in the Chair.

Dr. Barton C. Hirst read an obituary notice of Dr. R. A. F. Penrose. (See page *lviii*.)

The decease was announced of the following members:

Prof. George E. Hough, at Evanston, Ill., on January 1, 1909, æt. 72.

Mr. Joseph Wharton, at Philadelphia, on January 11, 1909, æt. 82.

The following papers were read:

"Some Aspects of the Question of English Speaking," by Prof. J. W. Bright. (Introduced by Dr. W. W. Keen.) Discussed by Prof. Schelling, Prof. Learned and Dr. Keen.

"The Solgram System of Color Photography," by Mr. W. C. South. (Introduced by Dr. W. W. Keen.)

*Stated Meeting February 5, 1909.*

WILLIAM W. KEEN, LL.D., President, in the Chair.

An invitation was received from the New York Academy of Sciences to attend its Darwin Centenary Commemoration on February 12. Prof. Henry Kraemer, President Henry S. Pritchett and Prof. E. G. Conklin, were appointed to represent the Society on the occasion.

The decease was announced of Mr. Charles Platt, at Philadelphia, on January 23, 1909, aged 80.

Prof. E. G. Conklin offered a minute in commemoration of the centenary of the birth of Charles Darwin (see page *lvi*) which was unanimously adopted.

Prof. Maurice Bloomfield read a paper on "The Hindu Idea," which was discussed by Prof. Jastrow.

*Stated Meeting February 19, 1909.*

WILLIAM W. KEEN, LL.D., President, in the Chair.

Prof. Charles M. Andrews, of Johns Hopkins University, presented an obituary notice of President Daniel C. Gillman. (Communicated by Dr. W. W. Keen.) (See page *lxii*.)

The decease was announced of Mr. Robert Patterson, at Blackburg, Va., on February 14, 1909, æt. 90.

Mr. Frederick H. Newell, director of the U. S. Reclamation Service, introduced by the President, presented a paper on "The Conservation of Water Resources in the Western United States."

*Special Meeting March 3, 1909.*

WILLIAM W. KEEN, LL.D., President, in the Chair.

Hon. Charlemagne Tower read a paper on "Diplomatic Life and Diplomatic Usage."

*Stated Meeting March 5, 1909.*

WILLIAM W. KEEN, LL.D., President, in the Chair.

The decease was announced of the following members:

Prof. Guillaume Lambert, at Brussels, on February 22, 1909, aged 92.

Prof. James W. Moore, M.D., at Easton, Pa., on February 28, 1909, æt. 64.

Mr. William R. Blair, director of the Research Observatory of the U. S. Weather Bureau, introduced by the President, read a paper on "The Exploration of the Upper Air by means of Kites and Balloons." (See page 25.) Discussed by Mr. Lehman and Mr. Goodwin.

*Stated Meeting March 19, 1909.*

WILLIAM W. KEEN, LL.D., President, in the Chair.

The decease was announced of Prof. Martin Hans Boyé, at Coopersburg, Pa., on March 5, 1909, aged 97.

The following papers were read:

"On Coal Tar Products and their Application in the Arts and

Medicine," by Prof. Marston T. Bogert, introduced by the President, which was discussed by Prof. Keller, Mr. Du Bois, Dr. Holland, Prof. Kraemer and Prof. Bogert.

"Recent Surgical Progress," by Dr. W. W. Keen.

*Stated Meeting April 2, 1909.*

WILLIAM W. KEEN, LL.D., President, in the Chair.

The decease was announced of Dr. William Henry Wahl, at Philadelphia, on March 23, 1909, æt. 60.

Prof. A. V. Williams Jackson, of Columbia University, introduced by the President, read a paper on "Mithraism and Manichæism—Two Developments of Early Persian Religious Thought." Discussed by Prof. Jastrow.

*Stated Meeting April 16, 1909.*

I. MINIS HAYS, Secretary, in the Chair.

The disease was announced of Dr. Persifor Frazer, at Philadelphia, on April 7, 1909, aged 65.

*General Meeting April 22, 23 and 24, 1909.*

Thursday, April 22. Opening Session—2 o'clock.

WILLIAM W. KEEN, LL.D., President, in the Chair.

The following papers were read:

"The American-British Atlantic Fisheries Question," by Thomas William Balch, of Philadelphia.

"The Nation and the Waterways," by Prof. Lewis M. Haupt, of Philadelphia. Discussed by Dr. Cyrus Adler.

"The Evolution of the City of Rome from its Origin to the Gallic Catastrophe," by Prof. Jesse B. Carter, of Rome, Italy. (Communicated by the President.) Discussed by Dr. W. W. Keen.

"Why America Should Reexplore Wilkes' Land," by Edwin Swift Balch, of Philadelphia. Discussed by Admiral Melville, Mr. H. G. Bryant and Dr. W. W. Keen.

"The Volcanic Formations of Java," by Henry G. Bryant, of Philadelphia.

The following preamble and resolutions were unanimously adopted:

*Whereas*, The United States in former years made many brilliant discoveries in the Antarctic, including the continent of Antarctica by Charles Wilkes, and

*Whereas*, The United States has not taken any part in the recent scientific explorations of the South Polar regions, therefore be it

*Resolved*, That The American Philosophical Society requests the coöperation of the scientific and geographical societies of this country to urge on the Government of the United States that it do make sufficient appropriations to send a vessel, under the direction of the Secretary of the Navy, to thoroughly explore and survey the coast of Wilkes Land, and other parts of Antarctica.

Friday, April 23. Executive Session—10 o'clock.

WILLIAM W. KEEN, LL.D., President, in the Chair.

Prof. Josiah Royce (elected 1908) was admitted into the Society.

The proceedings of the Officers and Council were submitted.

Morning Session—10.05 o'clock.

WILLIAM W. KEEN, LL.D., President, in the Chair.

"The Brains of Two White Philosophers and of Two Obscure Negroes" (illustrated by specimens and diagrams), by Prof. Burt G. Wilder, of Ithaca, N. Y. Discussed by Dr. E. A. Spitzka.

"Some Conditions Modifying the Interpretation of Human Brain Weight Records," by Dr. H. H. Donaldson, of Philadelphia.

"Some Notes on the Modification of Color in Plants," by Prof. Henry Kraemer, of Philadelphia. Discussed by Prof. Harshberger, Prof. Hobbs, Prof. W. T. Hewett and Prof. Kraemer.

"Comparative Leaf Structure of the New Jersey Strand Plants," by Prof. John W. Harshberger, of Philadelphia. Discussed by Prof. Wilder and Mr. Harrison S. Morris.

"The Composition of Chrysocolla," by Prof. Harry F. Keller, of Philadelphia.

"The Chemical Work of the U. S. Geological Survey," by Frank Wigglesworth Clarke, of Washington.

"Recent Work on the Physics of the Ether," by Paul R. Heyl, of Philadelphia. (Introduced by Prof. Harry F. Keller.)

"Effect of Bleaching Powder Upon Bacterial Life in Water," by Prof. William Pitt Mason, M.D., of Troy, N. Y. Discussed by Prof. Kraemer and Dr. W. J. Holland.

"The Detonation of Gun Cotton," by Prof. Charles E. Munroe, of Washington.

On motion it was ordered that a telegram conveying the Society's good wishes and great regret at his absence from the meeting be sent to Prof. Simon Newcomb. To this telegram a reply was received from Prof. Newcomb thanking the Society for its kind greetings which he highly appreciated.

Afternoon Session—2.30 o'clock.

WILLIAM B. SCOTT, LL.D., Vice-President, in the Chair.

"South American Fossil Cetacea," by Dr. Frederick W. True, of Washington. Discussed by Prof. W. B. Scott.

"The Destruction of the Fresh Water Fauna of Western Pennsylvania," by Dr. Arnold E. Ortman, of Pittsburgh.

"The Stratigraphic Position of the Oolitic Iron-Ore at Bloomsburg, Pa.," by Gilbert van Ingen, of Princeton. (Introduced by Prof. W. B. Scott.)

ALBERT A. MICHELSON, LL.D., Vice-President, in the Chair.

"Machines and Engineering in the Renaissance and in Classical Antiquity," by Prof. Christian Hülsen, of Rome Italy. (Introduced by Dr. W. W. Keen.)

"On the Extent and Number of the Indo-European Peoples," by Prof. Maurice Bloomfield, of Baltimore.

"A Mechanical Device for the Tabulation of the Sums of Numerous Variable Functions," by Prof. Ernest W. Brown, of New Haven.

"The Burning Bush and the Origin of Judaism," by Prof. Paul Haupt, of Baltimore.

"On Certain Generalizations of the Problem of Three Bodies," by President Edgar Odell Lovett, of Houston, Texas.

"Penrose's Graphical Method for Orbit Determination," by Prof. Eric Doolittle, of Flower Observatory, Philadelphia.

#### Evening Session.

WILLIAM W. KEEN, LL.D., President, in the Chair.

*Commemoration of the Centenary of Charles Darwin's Birth (February 12, 1809) and the Fiftieth Anniversary of the Publication of the "Origin of Species" (November 24, 1859).*

The following addresses were delivered:

"Personal Reminiscences of Charles Darwin and of the Reception of the '*Origin of Species*.'" by His Excellency, the Right Honorable James Bryce, British Ambassador at Washington.

"The Influence of Darwin on Natural Science," by Prof. George Lincoln Goodale, of Cambridge.

"The Influence of Darwin on the Mental and Moral Sciences," by Prof. George Stuart Fullerton, of New York.

Attention was called to the fact that there were two members of the Society still living who were friends and collaborators of Charles Darwin—Sir Joseph Dalton Hooker and Dr. Alfred Russell Wallace, and it was ordered that on the occasion of this Commemoration the Society transmit by cable to them its greetings and congratulations on the general acceptance of the views in the elaboration and promulgation of which they took an active and effective part.

Saturday, April 24. Executive Session—10 o'clock.

ALBERT A. MICHELSON, LL.D., Vice-President, in the Chair.

Candidates for membership were balloted for, and the tellers reported the election of the following:

#### *Residents of the United States.*

Louis A. Bauer, Ph.D. (Berlin), Washington, D. C.

Marston Taylor Bogert, New York City.

Hermon Carey Bumpus, Ph.D., New York City.

Alexis Carrel, M.D., New York City.



Edwin Brant Frost, Williams Bay, Wis.  
Robert Almer Harper, Ph.D., Madison, Wis.  
William Herbert Hobbs, Ph.D., Ann Arbor, Mich.  
A. V. Williams Jackson, Ph.D., LL.D., Yonkers, N. Y.  
John Frederick Lewis, Philadelphia.  
Abbott Lawrence Lowell, Boston, Mass.  
William Romaine Newbold, Ph.D., Philadelphia.  
Charles Bingham Penrose, M.D., Ph.D., Philadelphia.  
William Howard Taft, Washington.  
Charles Richard Van Hise, M.S., LL.D., Madison, Wis.  
Victor Clarence Vaughan, M.D., Sc.D., LL.D., Ann Arbor, Mich.

*Foreign Residents.*

Francis Darwin, M.A., F.R.S., Cambridge, Eng.  
Hermann Diels, Ph.D., Berlin.  
Emil Fischer, Ph.D., M.D., Berlin.  
Friedrich Kohlrausch, Ph.D., Marburg.  
Wilhelm Pfeffer, Ph.D., Leipzig.

Morning Session.

ALBERT A. MICHELSON, LL.D., Vice-President, in the Chair.

Prof. Robert William Wood (elected 1908) and Dr. Louis A. Bauer, a newly elected member, were admitted into the Society.

The following papers were read:

"On the Remarkable Changes in the Tail of Comet C. 1908 (Morehouse), and On a Theory to Account for these Changes," by Prof. E. E. Barnard, of Yerkes Observatory, Williams Bay, Wis. Discussed by Prof. M. B. Snyder, Prof. Michelson, Dr. George F. Becker and Prof. Ernest W. Brown.

"The Past History of the Earth as Inferred from the Mode of Formation of the Solar System," by Dr. T. J. J. See, of U. S. Naval Observatory, Mare Island, Cal.

"The Linear Resistance between Parallel Conducting Cylinders," by Prof. A. E. Kennelly, of Cambridge.

"Vacuum Effects in Electrical Discharge around a Right Angle in a Wire," by Prof. Francis E. Nipher, of St. Louis.

"The Ruling of Diffraction Gratings," by Prof. Albert A. Mich-

elson, of Chicago. Discussed by Prof. Robert W. Wood, Prof. M. B. Snyder and Prof. Doolittle.

"On an Adjustment for a Plane Grating similar to Rowland's for the Concave Grating," by Prof. Carl Barus, assisted by M. Barus, of Providence.

"The Electron Method of Standardizing the Coronas of Cloudy Condensation," by Prof. Carl Barus, of Providence.

"The Electrometric Measurements of the Potential Difference between two Conductors of a Condenser containing a highly Ionized Medium," by Prof. Carl Barus, of Providence.

"Solar Activity and Terrestrial Magnetic Disturbances," by Dr. L. A. Bauer, of Washington. Discussed by Prof. Kennelly and Dr. Bauer.

"The Effect of Temperature on the Absorption Spectra of Certain Solutions," by Prof. Harry C. Jones, of Baltimore. (Introduced by President Ira Remsen.)

"The Specific Chemo-Therapy of the Protozoal Diseases," by Dr. Simon Flexner, of the Rockefeller Institute for Medical Research, New York.

"The Unsuspected Presence of Habit-Forming Agents in Beverages and Medicines," by Dr. Lyman F. Kebler, of Washington. (Introduced by Dr. Harvey W. Wiley.) Discussed by Dr. E. A. Spitzka and Dr. Kebler.

#### Afternoon Session—2.30 o'clock.

WILLIAM B. SCOTT, LL.D., Vice-President, in the Chair.

Prof. William Herbert Hobbs and Mr. Abbott Lawrence Lowell, newly elected members, were admitted into the Society.

The following papers were read:

#### *Symposium on Earthquakes.*

"Introduction—Classification—Discussion of Volcanic Earthquakes—Description, with illustrations, of the Charleston, S. C., and Kingston, Jamaica, Disasters," by Prof. Edmund O. Hovey, of New York. (Introduced by Prof. W. B. Scott.)

"The Present Status and the Outlook of Seismic Geology," by Prof. William H. Hobbs, of Ann Arbor, Mich.

"Conditions Leading to Tectonic Earthquakes—Instruments used in the Study of Earthquakes—Suggestions for a National Seismological Bureau," by Prof. Harry F. Reid, of Baltimore. (Introduced by Prof. W. B. Scott.)

These three papers were discussed by Profs. Michelson, William Morris Davis, W. H. Hobbs, H. F. Reid and W. B. Scott.

The following preamble and resolutions were presented and unanimously adopted:

*Whereas*, Earthquakes have been the cause of great loss of life and property within the territory of the United States and its possessions, as well as in other countries, and

*Whereas*, It is only through the scientific investigation of the phenomena that there is hope of discovering the laws which govern them, so as to predict their occurrence and to reduce the danger to life and property, and

*Whereas*, Such investigations can be successfully conducted only with the support of the general government, be it, therefore,

*Resolved*, That this Society urge upon Congress the establishment of a National Bureau of Seismology, and suggest that this bureau be organized under the Smithsonian Institution with the active coöperation of the other scientific departments of the government and that this bureau be charged with the following duties:

- (a) The collection of seismological data.
- (b) The establishment of observing stations.
- (c) The organization of an expeditionary corps for the investigation of special earthquakes and volcanic eruptions in any part of the world.
- (d) The study and investigation of special earthquake regions within the National domain. And

*Resolved*, That copies of these resolutions be transmitted to the President, to the President of the Senate, to the Speaker of the House of Representatives, and to the Secretary of the Smithsonian Institution.

*Stated Meeting May 7, 1909.*

WILLIAM W. KEEN, LL.D., President, in the Chair.

Dr. Charles B. Penrose, Mr. John Frederick Lewis and Prof. William Romaine Newbold, newly elected members, were admitted into the Society.

Letters accepting membership were read from:

Louis A. Bauer, Ph.D. (Berlin), Washington, D. C.

Marston Taylor Bogert, New York.

Hermon Carey Bumpus, Ph.D., New York City.

Alexis Carrel, M.D., New York City.

Edwin Brant Frost, Williams Bay, Wis.

A. V. Williams Jackson, Ph.D., LL.D., Yonkers, N. Y.

John Frederick Lewis, Philadelphia.

William Romaine Newbold, Ph.D., Philadelphia.

Charles Bingham Penrose, M.D., Ph.D., Philadelphia.

William Howard Taft, Washington.

Charles Richard Van Hise, M.S., LL.D., Madison, Wis.

Victor Clarence Vaughan, M.D., Sc.D., LL.D., Ann Arbor, Mich.

A letter was received from Dr. Alfred Russell Wallace, thanking the Society for its kind greetings sent when celebrating Darwin's centenary. (See page ix.)

The decease was announced of Mr. Andrew Mason, at New York, on April 28, 1909, aged 80.

Dr. Alexander Graham Bell read a paper on "Aërial Locomotion," which was discussed by Mr. A. E. Lehman and Prof. M. B. Snyder.

*Stated Meeting May 21, 1909.*

Mr. H. LA BARRE JAYNE, Treasurer, in the Chair.

Letters accepting membership were read from:

Francis Darwin, M.A., F.R.S., Cambridge, Eng.

Hermann Diels, Ph.D., Berlin.

Emil Fischer, Ph.D., M.D., Berlin.

Friedrich Kohlrausch, Ph.D., Marburg.

Wilhelm Pfeffer, Ph.D., Leipzig.

A letter was received from Sir Joseph Dalton Hooker expressing

his thanks for the Society's greeting conveyed by cablegram on the occasion of the commemoration of the centenary of Charles Darwin. (See page ix.)

An invitation was read from the Massachusetts Institute of Technology inviting the Society to be represented at the inauguration of Dr. Richard C. Maclaurin as President, on June 7. On motion the President was authorized to appoint such a representative.

The decease was announced of Dr. C. Newlin Peirce, at Philadelphia, on May 16, 1909, aged 80.

Mr. R. H. Mathews read a paper on "Some Burial Customs of the Australian Aborigines."

*Stated Meeting, October 1, 1909.*

WILLIAM W. KEEN, M.D., LL.D., President, in the Chair.

Mr. James Christie, elected to membership in 1908, was admitted into the Society.

A letter accepting membership was received from Prof. Robert A. Harper.

Invitations were received:

From the University of Geneva to be represented at the Celebration of the 350th Anniversary of the foundation of the University.

From the President and Fellows of Harvard University to be represented at the inauguration of Abbott Lawrence Lowell, LL.D., as President of Harvard University.

The decease was announced of the following members:

Dr. Aristides Brezina, at Vienna, on May 25, 1909, æt. 62.

Dr. Edward Everett Hale, at Roxbury, Mass., on June 10, 1909, æt. 87.

Prof. Simon Newcomb, at Washington, on July 11, 1909, æt. 74.

Dr. Henry C. Chapman, at Bar Harbor, Me., on September 7, 1909, æt. 64.

Dr. Anton Dohrn, at Naples, on September 26, 1909, æt. 68.

The following papers were presented:

"The Vertebrates of the Cayuga Lake Basin, N. Y.," by Hugh

D. Reed and Albert H. Wright. (Communicated by Prof. Burt G. Wilder.)

"Further Notes on Ceremonial Stones, Australia," by R. H. Mathews.

*Stated Meeting, October 15, 1909.*

WILLIAM W. KEEN, M.D., LL.D., President, in the Chair.

The decease was announced of Prof. Otto Donner, at Helsingfors, on September 17, 1909.

Dr. Randle C. Rosenberger read a paper on "Typhoid Carriers."

*Stated Meeting, November 5, 1909.*

WILLIAM W. KEEN, M.D., LL.D., President, in the Chair.

Invitations were received:

From the College of Physicians of Philadelphia, inviting the Society to be represented at the dedication of its New Hall.

From the XVIIth International Congress of Americanists to be represented at the Congress to be held first at Buenos Aires from May 16 to 21, 1910, and then in the City of Mexico in the following September.

The decease was announced of:

Henry Charles Lea, LL.D., at Philadelphia, on October 24, 1909, æt. 84.

Hon. William Butler, at West Chester, Pa., on November 3, 1909, æt. 87.

Mr. Harrison S. Morris read an obituary notice of Mr. Joseph Wharton.

Dr. W. B. Cannon read a paper on "The Correlation of the Gastric and Intestinal Digestive Processes and the Influence of Emotions upon Them."

Mr. John C. Willis, Director of the Royal Botanic Garden, Colombo, read a paper on "The Vegetation of Ceylon."

*Stated Meeting, November 19, 1909.*

WILLIAM W. KEEN, M.D., LL.D., President, in the Chair.

Prof. C. L. Doolittle read a paper on "Halley's Comet."

Prof. Edward C. Pickering was elected a Vice-President to fill the unexpired term of the late Prof. Simon Newcomb.

*Stated Meeting, December 3, 1909.*

WILLIAM W. KEEN, M.D., LL.D., President, in the Chair.

An invitation was received from the president of the Eighth International Zoological Congress to send delegates to the Congress to be held at Graz, Austria, from August 15 to 20, 1910.

Prof. E. P. Cheyney read a paper on "The Court of Star Chamber in the Time of Queen Elizabeth and the Early Stuarts."

*Stated Meeting, December 17, 1909.*

WILLIAM W. KEEN, M.D., LL.D., President, in the Chair.

The decease was announced of M. Serge Nikitin, at St. Petersburg, on November 18, 1909.

The Annual Address of the President was delivered by Dr. William W. Keen.

Dr. Edward Meyer, of Berlin, read a paper entitled "The Story of the Wise Ahikar."